

WELDING METHOD FOR TITANIUM ALLOY**Publication number:** JP57181775 (A)**Publication date:** 1982-11-09**Inventor(s):** KAKIMI TSUNEO; NAKANOSE MEGUMI; SATOU HIROSHI;
KONISHI TAKAAKI; KITA HISANAO; NAKASAKI TAKAMITSU**Applicant(s):** NISSAN MOTOR; HITACHI LTD**Classification:****- international:** B23K9/23; B23K15/00; B23K26/00; B23K26/32; B23K35/30;
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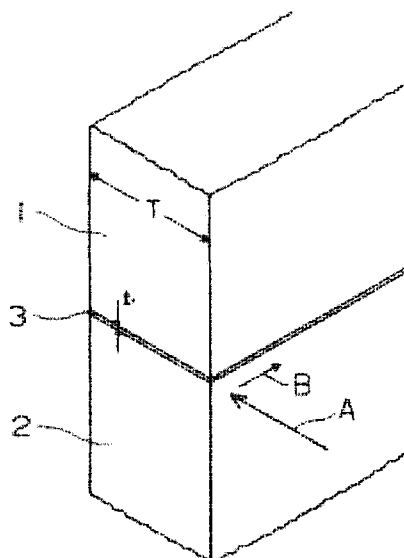
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Abstract of JP 57181775 (A)

PURPOSE: To improve strength and toughness and to improve mechanical properties in welded joint parts in welding titanium alloys to each other by butting these via a specific insert material and welding these by high energy density welding.

CONSTITUTION: Pure titanium or a material containing $\leq 3.0\text{wt}\%$ aluminum and consisting of the balance substantially titanium is used for an insert material 3 to be interposed in the butt parts of titanium alloys. The titanium alloys are butted to each other by way of such insert material, and the butt parts are welded by electron beam welding or laser welding having high energy density.



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